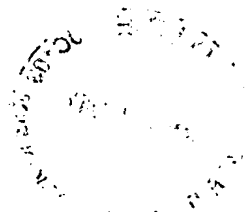


FIG. 1A-1
FIG. 1A-2

FIG. 1A

GAATTC	CCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAAACC	39 (UPPER: SEQ ID NO.: 1)
TTCCCTTCACTACAAACTTCATTGCTTGGCCAAAAGAGAGTTAATTCATGTAGACAT		19 (LOWER: SEQ ID NO.: 4)
CTATGTAGGCAATTAAAAACCTATTGATGTATATAAACAGTTTGCATTTCATGGAGGGCAAC		119
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTATGCACAGGGTGAACAAG		39
ATGGATTATCAAGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC		179
M D Y Q V S S P I Y D I N Y Y T S E P C		59
		239
		79
		299
		99

FIG. 1A-1



EDFED-ED/EEED

CAAAAATCAATGTGAAGCAAAATCGAGCCCGCTCCTCGCTCTACTCACTGGTG 359
Q K I N V K Q I A A R L L P P L Y S L V 119

TTCATCTTTGGTTTGTGGCAACATGCTGGTCACTCCTCATCCTGATAAACTGCAAAAGG 419
F I F G F V G N M L V I L I L I N C K R 139

CTGAAGAGCATGACTGACATCTACCTGTCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT 479
L K S M T D I Y L L N L A I S D L F F L 159

CTTACTGTCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGACTTTGGAAATACAATG 539
L T V P F W A H Y A A A Q W D F G N T M 179

TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTCTCTGGAATCTTCTTCATCATC 599
C Q L L T G L Y F I G F F S G I F F I I 199

CTCCTGACAATCGATAGGTACCTGGCTGCTGCCATGCTGTGTGTTGTTTAAAGCCAGG 659
L L T I D R Y L A V V H A V F A L K A R 219

ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTGTGCGTCT 719
T V T F G V V T S V I T W V V A V F A S 239

CTCCAGGAATCATCTTTACCAGATCTCAAAAGAAGTCTTCATTACACCTGCAGCTCT 779
L P G I I F T R S Q K E G L H Y T C S S 259

CATTTTCCATACA
H F P Y

FIG. 1A-2

FIG. 1B-1
FIG. 1B-2

FIG. 1B

59 (UPPER: SEQ ID NO.: 2)
19 (LOWER: SEQ ID NO.: 5)

3/20

GAATTCCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAACC

TTCCCTTCACTACAAAACCTTCATTGCTTGGCCAAAAGAGAGTTAATTCAATGTAGACAT

CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCAATTCATGGAGGGCAAC

TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTATGCACAGGGTGAACAAG

ATGGATTATCAAGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC

M D Y Q V S S P I Y D I N Y Y T S E P C

FIG. 1B-1

2015-10-20 10:00:00

CAAAAATCAATGTGAAGCAAATCGCAGCCCGCTCCTGCTCCGCTCTACTCACTGGTG 359
Q K I N V K Q I A A R L L P P L Y S L V 119
TTCACTCTTGGTTTGTGGGCAACATGCTGGTCACTCCTCATCCTGATAAACTGCAAAAGG 419
F I F G F V G N M L V I L I L I N C K R 139
CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTCCTT 479
L K S M T D I Y L L N L A I S D L F L 159
CTTACTGTCCCTTCTGGGCTCACTATGCTGCCGCCCGGACTTTGGAAATACAATG 539
L T V P F W A H Y A A A Q W D F G N T M 179
TGTCAACTCTTGACAGGGCTCTATTTATAGGCTTCTCTCTGGAATCTTCTTCATCATC 599
C Q L L T G L Y F I G F F S G I F I I 199
CTCCTGACAAATCGATAGTACCTGGCTGCTGCTCCATGCTGTGTTGCTTTAAAGCCAGG 659
L L T I D R Y L A V V H A V F A L K A R 219
ACGGTCACCTTTGGGGTGGTGACAAAGTGTGATCACTTGGGTGGCTGTGTTGCGTCT 719
T V T F G V V T S V I T W V V A V F A S 239
CTCCAGGAATCATCTTTACCAGATCTCAAAAAGAAGTCTTCATTACACCTGCAGCTCT 779
L P G I I F T R S Q K E G L H Y T C S S 259
CATTTCCATACAGTCAGTATCAATTTCTGGAAGAATTTCCAGACATTAAGATAGTCATC 839
H F P Y S Q Y Q F F W K N F Q T L K I V I 279

FIG. 1B-2

5/20

ED 100-ED 2000

TTGGGGCTGCTCCTGCCGCTGCTTGTCATGGTCTACTGCTACTCGGGAATCCTAAAAACT 899
 L G L V L P L L V M V I C Y S G I L K T 299
 CTGCTTCGGTGTGAAATGAGAAGAGGACAGGGCTGTGAGGCTTATCTTCACCATC 959
 L L R C R N E K K R H R A V R L I F T I 319
 ATGATTGTTTATTTCTCTCTGGGCTCCCTACACATTGTCTCTTCTCTGAAACACCTTC 1019
 M I V Y F L F W A P Y N I V L L L N T F 339
 CAGGAATTCTTTGGCCTGAATAATTGCAGTAGCTCTAACAGGTTGGACCAAGCTATGCAG 1079
 Q E F F G L N N C S S S N R L D Q A M Q 359
 GTGACAGAGACTCTTGGGATGACGCACCTGCTGCATCAACCCCATCATCTATGCCCTTGTG 1139
 V T E T L G M T H C C I N P I I Y A F V 379
 GGGAGAAGTTCAGAAACTACCTCTTAGTCTTCTTCCAAAGCACATTGCCAAACGCTTC 1199
 G E K F R N Y L L V F F Q K H I A K R F 399
 TGCAAATGCTGTTCTATTTCCAGCAAGAGGCTCCGAGCGAGCAAGCTCAGTTTACACC 1259
 C K C C S I F Q Q E A P E R A S S V Y T 419
 CGATCCACTGGGGAGCAGGAAATATCTGTGGGCTTGTGACACGGACTCAAGTGGGCTGGT 1319
 R S T G E Q E I S V G L * 439
 GACCCAGTCAGAGTTGTGCACATGGCTTAGTTTTTCATACACAGCCTGGGCTGGGGTNGG 1379
 459
 TTGGNNGAGGTCTTTTTTAAAGGAAGTTACTGTATTAGAGGGTCTAAGATTCTATCCATT 1439
 479
 TATTGGCATCTGTTTAAAGTAGATTAGATCCGAATTC

TATTGGCATCTGTTTAAAGTAGATTAGATCCGAATTC

FIG. 1B-3

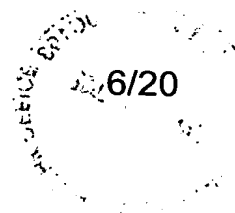
204470-FOI-BE60

FIG. 1D-1
FIG. 1D-2

FIG. 1D

GAATTCCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAACC	59 (UPPER: SEQ ID NO. 3)
	19 (LOWER: SEQ ID NO. 6)
TTCCCTTCACTACAAAACCTTCATTGCTTGCCCAAAAGAGAGTTAATTCAATGTAGACAT	119
	39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCAATTCATGGAGGGCAAC	179
	59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTATGCACAGGGTGAACAAG	239
	79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299
M D Y Q V S S P I Y D I N Y Y T S E P C	99

FIG. 1D-1



7/20



FIG. 1D-2

204E40 E04BEB00

CAAAAATCAATGTGAAGCAAATCGCAGCCCGCTCCTGCTCCGCTCTACTCACTGGTG 359
Q K I N V K Q I A A R L L P P L Y S L V 119
TTCATCTTTGGTTTGTGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG 419
F I F G F V G N M L V I L I L I N C K R 139
CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTCCTT 479
L K S M T D I Y L L N L A I S D L F F L 159
CTTACTGTCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG 539
L T V P F W A H Y A A A Q W D F G N T M 179
TGTCAACTCTTGACAGGGCTCTATTTATAGGCTTCTTCTGGAATCTTCTTCATCATC 599
C Q L L T G L Y F I G F F S G I F I I 199
CTCCTGACAAATCGATAGGTACCTGGCTGCTGCTCCATGCTGTGTTTGTAAAGCCAGG 659
L L T I D R Y L A V V H A V F A L K A R 219
ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTGTTGCGTCT 719
T V T F G V V T S V I T W V V A V F A S 239
CTCCAGGAATCATCTTTACCAGATCTCAAAAGAAGTCTTCACTTACACCTGCAGCTCT 779
L P G I I F T R S Q K E G L H Y T C S S 259
CATTTCCATACATTAAGATAGTCATCTTGGGGCTGGTCCCTGCCGTGCTTGTGTCATGGT 839
H F P Y I K D S H L G A G P A A A C H G 279

204440-40436650

8/20

CATCTGCTACTCGGGAATCCTAAAACTCTGCTTCGGTGTGAAATGAGAAAGAGGCA 899
H L L L G N P K N S A S V S K * 299
CAGGGCTGTGAGGCTTATCTTCACCATCATGATTGTTTATTCTCTCTCTGGGCTCCCTA 959
319
CAACAATTGTCCTTCTCCTGAACACCTTCCAGGAATCTTTGGCCTGAATAATTGCAGTAG 1019
339
CTCTAACAGGTGGACCAAGCTATGCAGGTGACAGAGACTCTTGGGATGACGCACCTGCTG 1079
359
CATCAACCCCATCATCTATGCCTTTGTCTGGGAGAAAGTTCAGAAACTACCTCTTAGTCTT 1139
379
CTTCCAAAAGCACATTGCCAAACGCTTCTGCAAAATGCTGTCTATTTTCCAGCAAGAGGC 1199
399
TCCCGAGCGAGCAAGCTCAGTTTACACCCGATCCACTGGGGAGCAGGAAATATCTGTGGG 1259
419
CTTGTGACACGGACTCAAGTGGGCTGGTGACCCAGTCAGAGTTGTGCACATGGCTTAGTT 1319
439
TTCATACACAGCCTGGGCTGGGGTNGGTTGGNNGAGGTCTTTTTTAAAGGAAGTTACT 1379
459
GTTATAGAGGCTAAGATTATCCATTATTTGGCATCTGTTTAAAGTAGATTAGATCC 1439
479

GAATTC

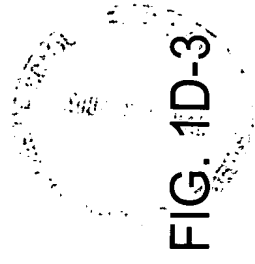


FIG. 2A
FIG. 2B

FIG. 2

CCR5 1 MDYQVSSPIYDINVTSEPCQKINVKQIAARLLPPLYSLVFIFGVGNMVLILINCKRLKSMTDIYLLNLAISDILFLIT 83
hcc-R2b 6 MLSTSRSRFIRNTNESGEEVTFDDYDYGAPCHKFDVKQIGAQLLPPLYSLVFIFGVGNMVLILINCKRLKCLTDIYLLNLAISDILFLIT 95
hcc-R3 MTTSLDTVETEGTTSYDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLIGNVVMILIKYRIRIMTNIIYLLNLAISDILFLVT 87
hcc-R1 METPNTTETDYDTTTEFDYGDATPCQKVNERAFGAQLLPPLYSLVFVIGLVGNILVVLVVOYKRUKNMTSIYLLNLAISDILFLFT 87
hcc-R4 MNPTDIADTTLDESIYSNVLYESIPKPTKEGKAFGEFLPPLYSLVFVFEGLIGNSVVVLVLFKYKRIRSMTDVYLLNLAISDILFVFS 92

II

I

V

III

IV

CCR5 VPFWAHYA.AQWDEGNMCCOLLTGLYFIFGFFSGIFFIILLTIDRYLA.WHAVFALKARTVTFGVVTSVITWVAVFASLPGLIIFTRSQKEGLH 177
hcc-R2b LPLWAHSA.ANEWFGNAMCKLFTGLYHIGYFGGIFFIILLTIDRYLA.WHAVFALKARTVTFGVVTSVITWVAVFASLPGLIIFTRSQKEGLH 189
hcc-R3 LPFWHYVRCHNWVFGHMCNLLSCFVHTGLYSEIFFIILLTIDRYLA.WHAVFAIRARTVTFGVITSVITWGLAVLAALPEFIFYETEELFEE 182
hcc-R1 LPFWIDYKLKDDWVFGDAMCKILSGFYVHTGLYSEIFFIILLTIDRYLA.WHAVFAIRARTVTFGVITSVITWGLAVLAALPEFIFYETEELFEE 182
hcc-R4 LPFWGYA.AQWVFGGLGCKMISWMLVGFYSGIFFVMLMSIDRYLA.WHAVFSRARTVTFGVITSVITWGLAVLAALPEFIFYETEELFEE 186

FIG. 2A

9/20

2025-10-20 10:20:00

10/20

VI

V

CCR5 YTCSSHPYSQYQF WKNFOTLKI VILGLVPLLVVICYSGLKTLRCNEKKRRAVRLLFTIMIVYFLFWAPYNNIVLLNTFQEFFGLNNC 272
 hcc-R2b YTCSSHPYSQYQF WKNFOTLKI VILGLVPLLVVICYSGLKTLRCNEKKRRAVRLLFTIMIVYFLFWAPYNNIVLLNTFQEFFGLNNC 280
 hcc-R3 TLCSALYPEDTVYSRHHHTLRMTIFCLVPLLVMAICYTGILKTLRCPSKKK.YKARLLIFVIMAVFEIIFWTPYNNIVLLNTFQEFFGLNNC 276
 hcc-R1 HTCSLHFPHESLREWKLFQALKLNLFGLVPLLVMAICYTGILKTLRCPSKKK.SKAVRLIFVIMAVFEIIFWTPYNNIVLLNTFQEFFGLNNC 276
 hcc-R4 TYCKTKYSLNST.TWKVLSSLEFINILGLVPLLVVICYSGLKTLRCNEKKRRAVRLLFTIMIVYFLFWAPYNNIVLLNTFQEFFGLNNC 279

VII

CCR5 SSSNRILDQAMQVTEITLGMTHCCINPIIYAFVGEKFRNLLVFFQKHIAGR.FCKCCSIFQOEAPERASSVYTRSTGEQETISVGL 352
 hcc-R2b ESTSQLDQATQVTEITLGMTHCCINPIIYAFVGEKFRNLLVFFQKHIAGR.FCKCCSIFQOEAPERASSVYTRSTGEQETISVGL 360
 hcc-R3 ERSKHLDLVMIVTEVIAYSHCCMNPIIYAFVGEKFRNLLVFFQKHIAGR.LGRYIPFLPSEKLERISSV.SPSTAEPELISIVF 355
 hcc-R1 EQSRHLDLAVQVTEVIAYTHCCVNPVIYAFVGEKFRNLLVFFQKHIAGR.LVWLPFLSVDRILERVSS.T.SPSTGEHEHISAGF 355
 hcc-R4 TFERVLDVYIQAETETIAFVHCCINPIIYAFVGEKFRNLLVFFQKHIAGR.LVWLPFLSVDRILERVSS.T.SPSTGEHEHISAGF 360

FIG. 2B

APPROVED	C. FIG.	
BY	CLASS	PLS. NO.
DRAFTSMAN		

11/20

CCR5

CCR2

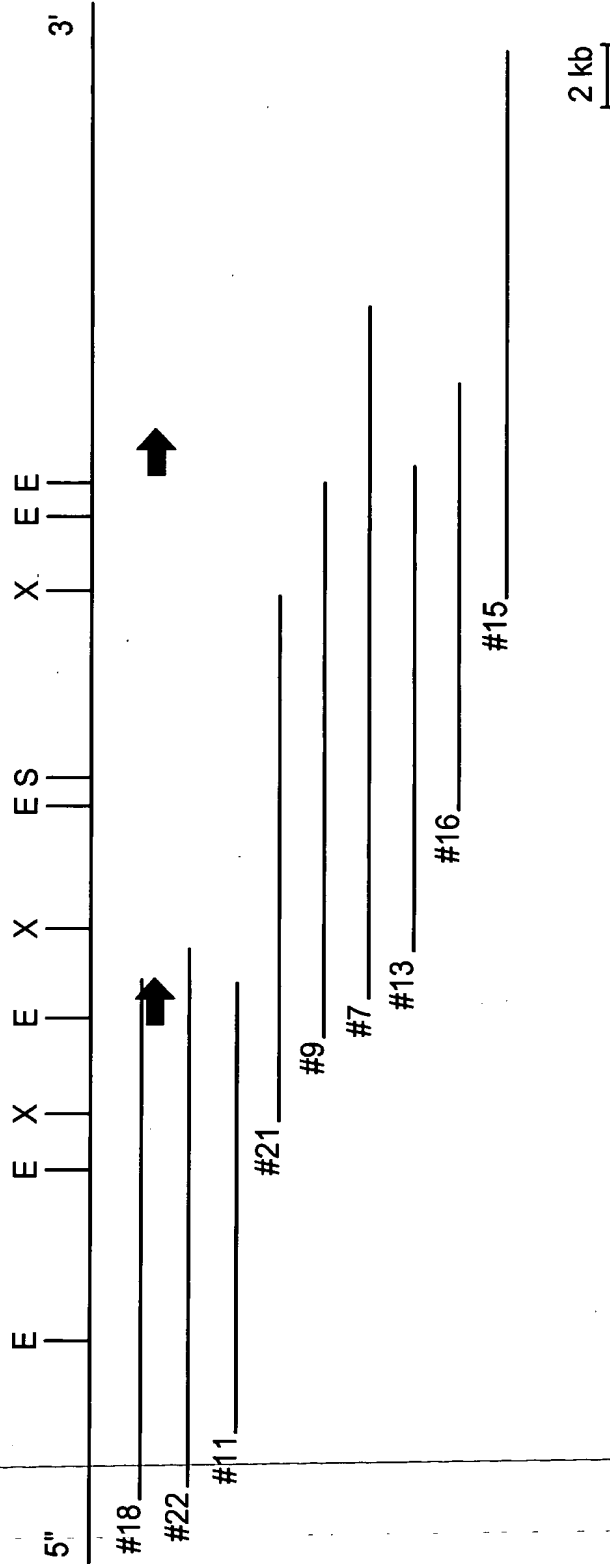


FIG. 3

12/20

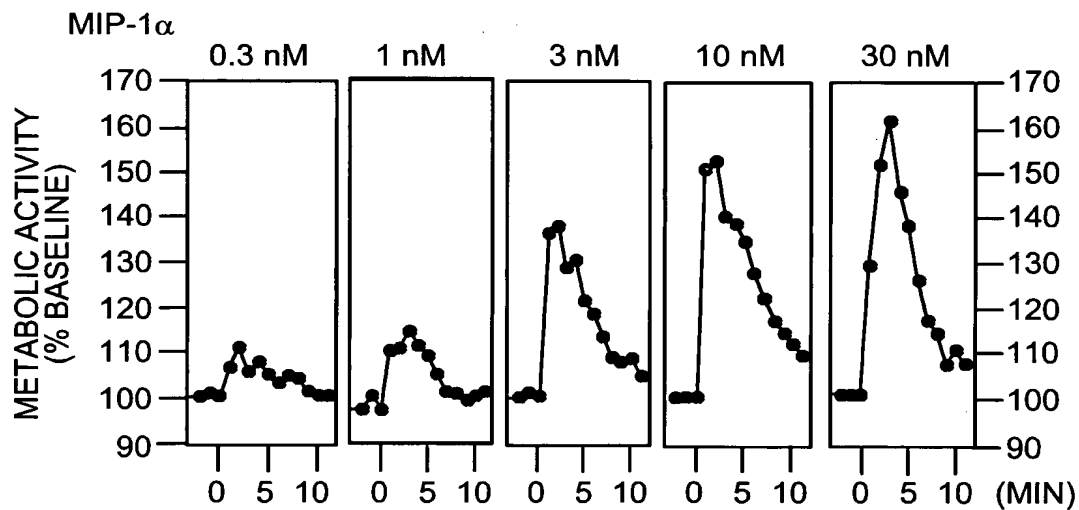


FIG. 4A

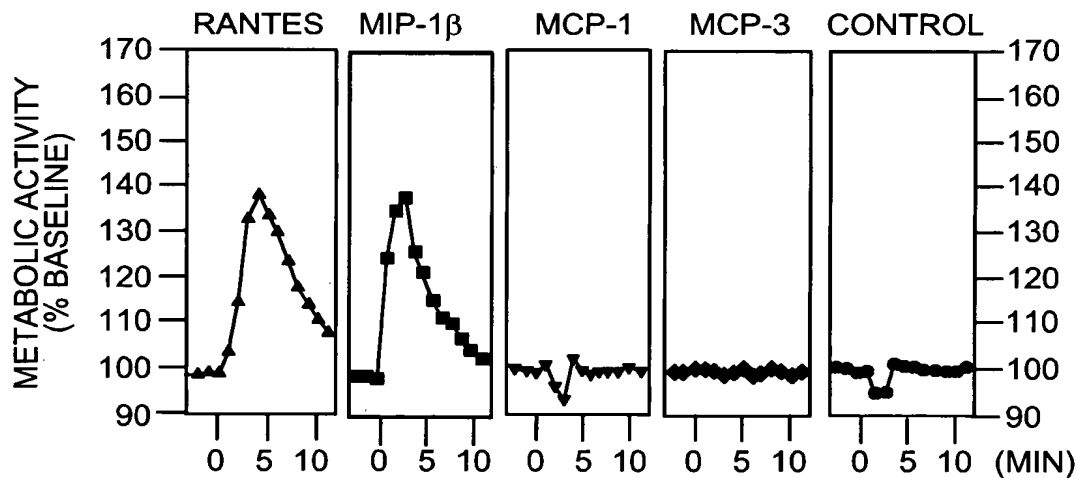


FIG. 4B

13/20

8710
DEC 1 1981
FBI - NEW YORK

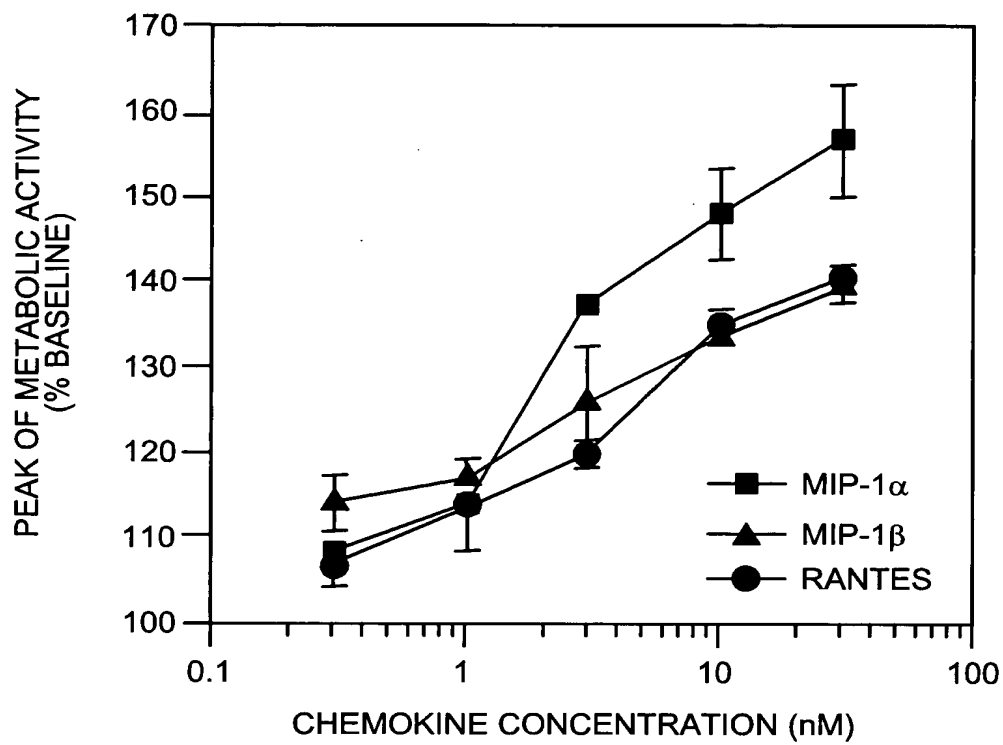


FIG. 4C

14/20



2025-03-20 10:10:00

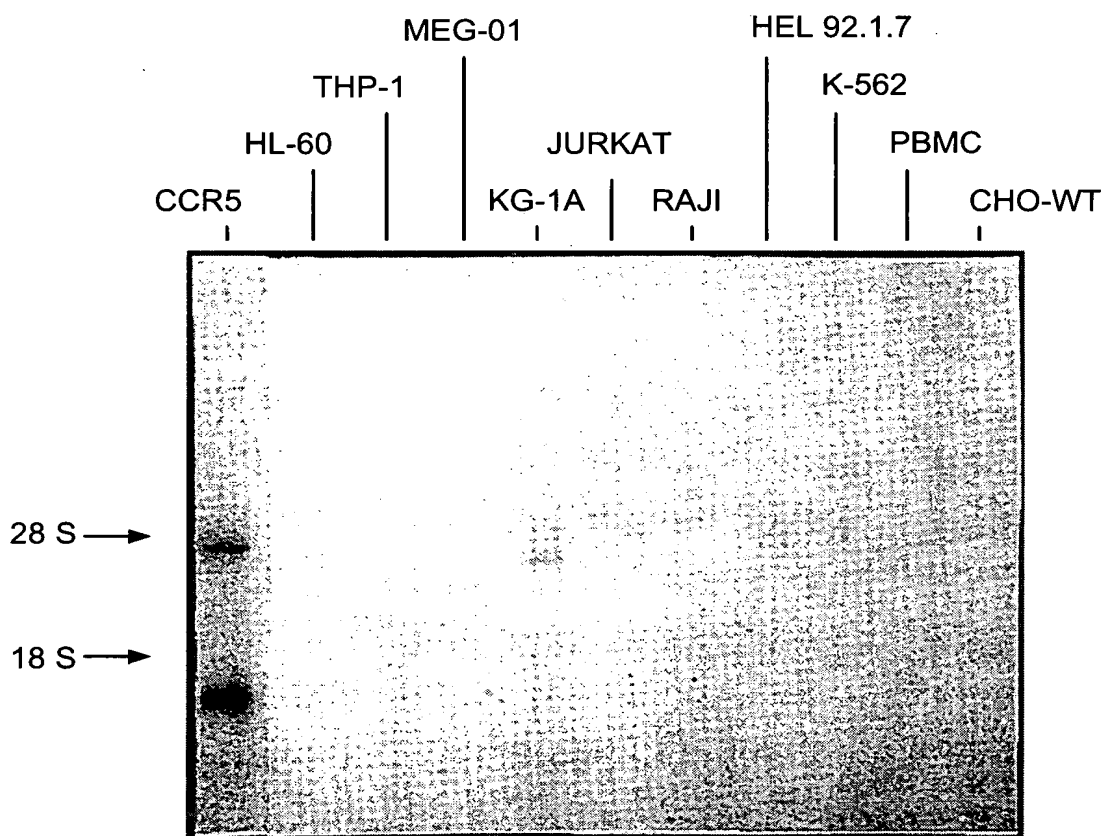


FIG. 5

FIG. 6B

17/20

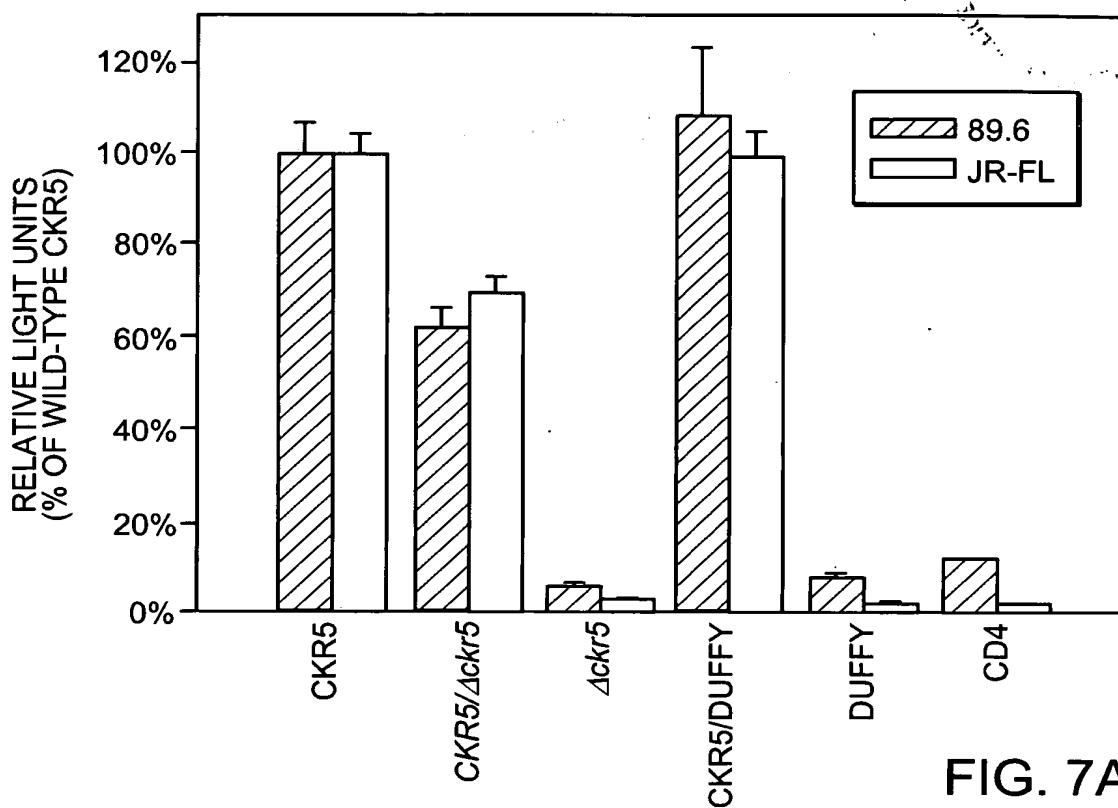


FIG. 7A

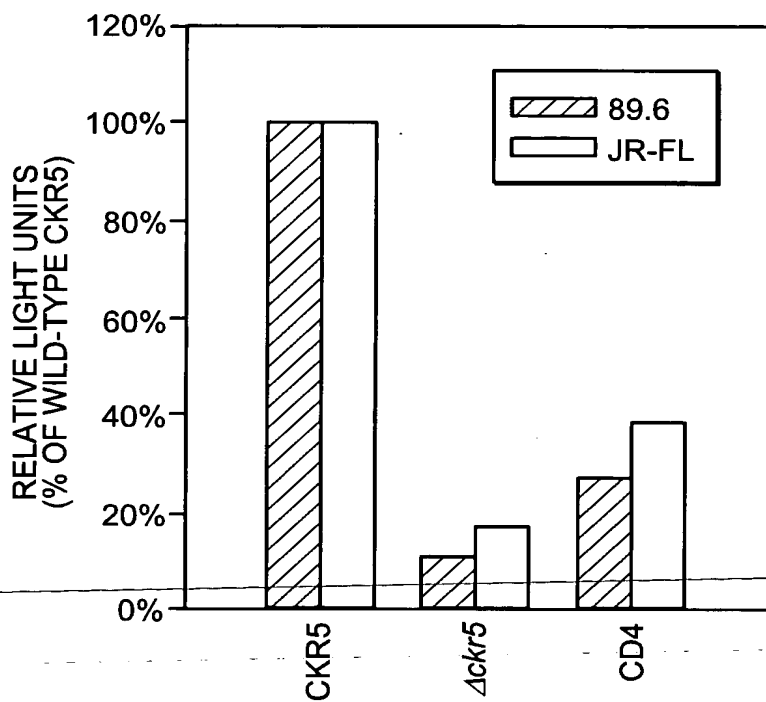
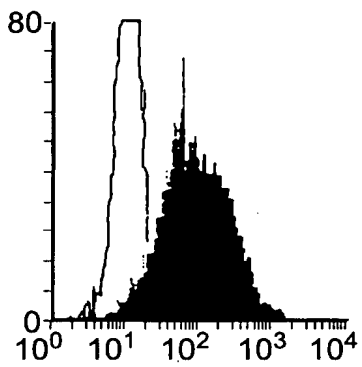


FIG. 7B

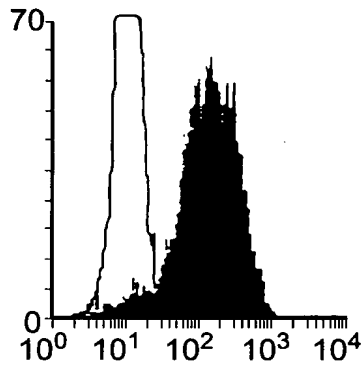
FIG. 8

19/20



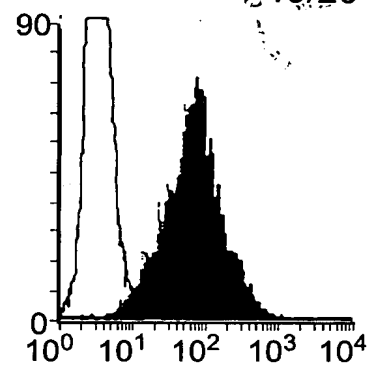
A0

FIG. 9A



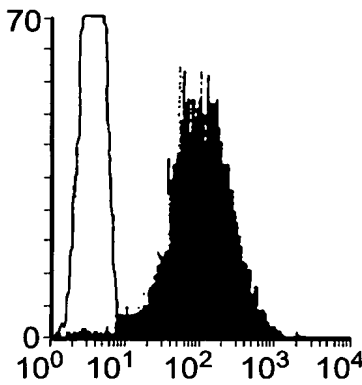
A1

FIG. 9B



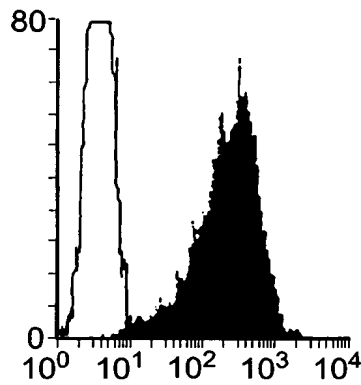
A2

FIG. 9C



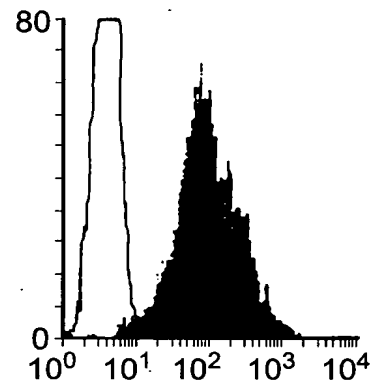
A5

FIG. 9D



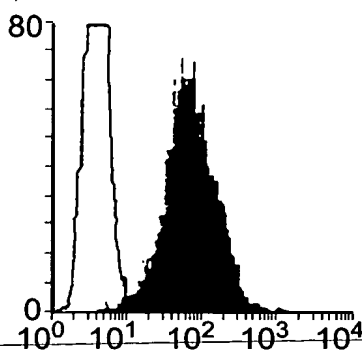
A4

FIG. 9E



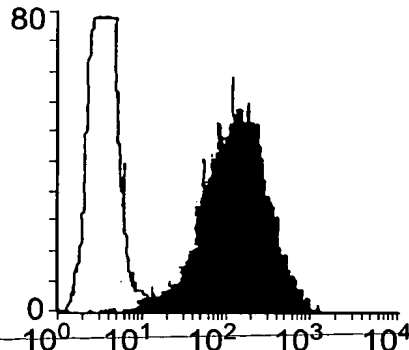
B0

FIG. 9F



B1

FIG. 9G



B3

FIG. 9H

2014-10-10 10:00:00

20/20

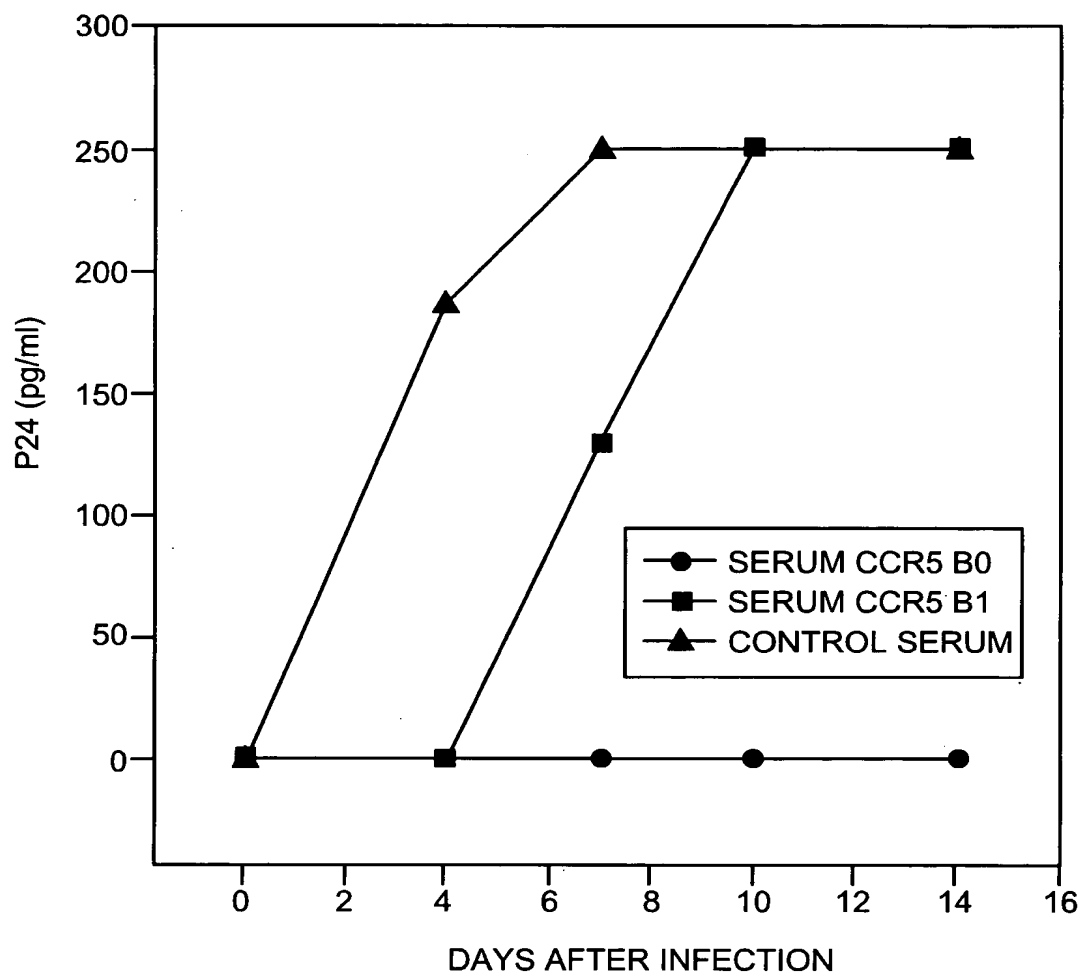


FIG. 10